

## Claims

1. (Currently Amended) A method for an OBEX (object-exchange) client to discover an accessible OBEX ~~object-exchange~~ resource on a network incorporating routable communications protocols, the method comprising:

listening on a multicast channel provided according to a routable network communications protocol for an ~~object-exchange resource~~ identification advertisement from an OBEX device;

receiving at least one advertisement on the multicast channel identifying an accessible OBEX ~~object-exchange~~ resource;

storing information from the received advertisement; and

using the stored information to address the identified OBEX device ~~object-exchange resource~~.

2. (Original) The method of claim 1 wherein the multicast channel is carried on a well-known port provided according to the routable network communications protocol.

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3. (Currently Amended) The method of claim 1 wherein the ~~received object-exchange resource~~ identification advertisement is carried according to a protocol in the set consisting of: the Simple Service Discovery Protocol and the Service Location Protocol.

4. (Currently Amended) The method of claim 1 wherein the ~~received object-exchange resource~~ identification advertisement contains information expressed according to an extensible markup language definition.

5. (Currently Amended) The method claim 1 wherein the identified accessible OBEX ~~object-exchange~~ resource is in the group: an OBEX ~~object-exchange~~ server, an OBEX ~~object-exchange~~ service, and a second OBEX ~~object-exchange~~ client.

6. (Currently Amended) The method of claim 5 wherein the identified accessible OBEX ~~object-exchange~~ resource is an OBEX ~~object-exchange~~ server and the received OBEX ~~object-exchange~~ resource identification advertisement

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lists OBEX ~~object-exchange~~ services provided by the OBEX ~~object-exchange~~ server.

7. (Currently Amended) The method of claim 5 wherein the identified accessible OBEX ~~object-exchange~~ resource is an OBEX ~~object-exchange~~ service in the group: inbox service, file browser, and synchronization service.

8. (Original) The method of claim 1 further comprising:  
applying a filter to the at least one received advertisement and  
discarding advertisements that do not satisfy criteria of the filter.

9. (Currently Amended) The method of claim 8 wherein at least one criterion of the filter is in the group: Globally Unique Identifier, geographical location, network hop count from the identified accessible OBEX ~~object-exchange~~ resource to the OBEX ~~object-exchange~~ client, address mask, and domain name.

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10. (Currently Amended) The method of claim 1 further comprising:  
making a list of the identified accessible OBEX ~~object-exchange~~  
resources.
11. (Currently Amended) The method of claim 1 further comprising:  
formulating a discovery request asking OBEX ~~object-exchange~~  
resources to identify themselves; and  
sending the discovery request over the multicast channel.
12. (Currently Amended) The method of claim 11 wherein the discover  
request specifies a property desired in responsive OBEX ~~object-exchange~~  
resources.
13. (Original) The method of claim 12 wherein the desired property is  
expressed according to an extensible markup language definition.

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14. (Original) The method of claim 11 wherein the scope of dispersal of the discovery request is expanded by bridging the discovery request from one network to another network.

15. (Original) The method claim 11 wherein the scope of dispersal of the discovery request is limited by means of a network hop count.

16. (Currently Amended) A computer-readable medium containing instructions for performing a method for an OBEX ~~object-exchange~~ client to discover an accessible OBEX ~~object-exchange~~ resource on a network incorporating routable communications protocols, the method comprising:

listening on a multicast channel provided according to a routable network communications protocol for an identification advertisement from an OBEX device ~~object-exchange resource identification advertisement~~;

receiving at least one advertisement on the multicast channel identifying an accessible OBEX device ~~object-exchange resource~~;

storing information from the received advertisement; and

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using the stored information to access the identified OBEX device  
~~object-exchange resource~~.

17. (Currently Amended) A method for an OBEX ~~object-exchange~~  
resource to make its accessibility known, the method comprising:

formulating an OBEX device ~~object-exchange resource~~  
~~identification-advertisement~~; and

sending the OBEX device advertisement on a multicast channel  
provided according to a routable network communications protocol.

18. (Original) The method of claim 17 wherein the multicast channel is  
carried on a well-known port provided according to the routable network  
communications protocol.

19. (Currently Amended) The method of claim 17 wherein the OBEX  
device ~~object-exchange resource identification~~ advertisement is carried  
according to a protocol in the set: the Simple Service Discovery Protocol, the  
Service Location Protocol.

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20. (Currently Amended) The method of claim 17 wherein the OBEX ~~device object-exchange resource-identification~~ advertisement contains information expressed according to an extensible markup language definition.

21. (Currently Amended) The method of claim 17 wherein the OBEX ~~device object-exchange resource~~ is in the group: an OBEX ~~object-exchange~~ server, an OBEX ~~object-exchange~~ service, an OBEX ~~object-exchange~~ client.

22. (Currently Amended) The method of claim 21 wherein the OBEX ~~device object-exchange resource~~ is an OBEX ~~object-exchange~~ server and the OBEX ~~device object-exchange resource-identification~~ advertisement lists OBEX ~~object-exchange~~ services provided by the OBEX ~~object-exchange~~ server.

23. (Currently Amended) The method of claim 21 wherein the OBEX ~~device object-exchange resource~~ is an OBEX ~~object-exchange~~ service in the group: inbox service, file browser, and synchronization service.

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24. (Currently Amended) The method of claim 17 further comprising:

- listening on the multicast channel for a discovery request asking OBEX ~~object-exchange~~ resources to identify themselves; and
- sending an OBEX ~~object-exchange~~ resource identification advertisement in response to a received discovery request.

25. (Currently Amended) A computer-readable medium containing instructions for performing a method for an OBEX ~~object-exchange~~ resource to make its accessibility known, the method comprising:

- formulating an OBEX ~~object-exchange~~ resource identification advertisement; and
- sending the advertisement on a multicast channel provided according to a routable network communications protocol.

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